

WHAT IS CLAIMED IS:

1. An image communication apparatus for communicating a color image with a distant apparatus according to the ITU-T recommendations upon
5 establishing line connection, comprising:
original read means for generating image data by reading an original image;
identification means for identifying a size of the original image read by said original read means;
10 compression means for compressing the image data;
and
control means for, when the size of the original image, identified by said identification means, is smaller than a page size defined by the recommendation,
15 causing said original read means to read the original image upon adding invalid data thereto to make the image data have a page size equal to the page size defined by the recommendation, and performing control
20 in accordance with the size of the original image in a case where the image data is compressed by said compression means and transmitted.
2. The apparatus according to claim 1, wherein the
25 invalid data is blank data.

3. The apparatus according to claim 1, wherein the invalid data is added while said read means reads the original image in a main scanning width of the page size defined by the recommendation with a white plate
5 placed behind the original image.

4. The apparatus according to claim 1, wherein said compression means performs JPEG compression, and
said control means sets the valid image area by
10 using a comment marker of a JPEG header.

5. An image communication apparatus for communicating a color image with a distant apparatus according to the ITU-T recommendations upon
15 establishing line connection, comprising:

original read means for generating image data by reading an original image;

identification means for identifying a size of the original image read by said original read means;

20 compression means for compressing the image data;
and

control means for, when the size of the original image, identified by said identification means, is smaller than a page size defined by the recommendation,
25 causing said original read means to read the original image in the size of the original image, and performing

control to designate a size of the original image in a case where the image data is compressed by said compression means and transmitted.

5 6. The apparatus according to claim 5, wherein said apparatus further comprises determination means for determining whether a receiving apparatus has a receiving capability of receiving image data of a size smaller than the page size defined by the
10 recommendation, and

said control means designates a size of the original image with respect to said receiving apparatus when said determination means determines that said receiving apparatus has the receiving capability.

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7. An image communication apparatus for communicating a color image with a distant apparatus according to the ITU-T recommendations upon establishing line connection, comprising:

20 size identification means for identifying a valid image data size from a valid image area of compressed data on the basis of a comment marker in a received JPEG-compressed file; and

selection means for selecting a printing medium
25 of a size suitable for printing on the basis of the

valid image data size identified by said size
identification means.

8. An image communication apparatus for
5 communicating a color image with a distant apparatus
according to the ITU-T recommendations upon
establishing line connection, comprising:

notification means for notifying the transmitting
side of information declaring that image data of a main
10 scanning size not more than a main scanning size
defined by the recommendation can be received; and

extraction means for extracting a valid area of
image data transmitted from the transmitting side in
response to the notification from said notification
15 means.

9. An image communication apparatus for
communicating a color image with a distant apparatus
according to the ITU-T recommendations upon
20 establishing line connection, comprising:

printing means for printing a color image on the
basis of an image signal;

determination means for determining a color
printing capability of said printing means; and

25 transmission means for transmitting information
about the color printing capability determined by said

determination means to a transmitting side using a control signal based on the recommendation.

10. The apparatus according to claim 9, wherein said
5 determination means determines the color printing capability in accordance with a type of color ink set and a type of printing medium in said printing means.

11. An image communication method for an image
10 communication apparatus for communicating a color image with a distant apparatus according to the ITU-T recommendations upon establishing line connection, comprising:

an identification step of identifying a size of
15 an original image;
a compression step of compressing the image data;
and

a control step of, when the size of the original image, identified in said identification step, is
20 smaller than a page size defined by the recommendation, reading the original image upon adding invalid data thereto to make the original image have a size equal to the page size defined by the recommendation, generating image data and performing control to set a valid image
25 area of the image data compressed in accordance with the size of the original image in a case where the

image data is compressed in said compression step and transmitted.

12. The method according to claim 11, wherein the
5 invalid data is blank data.

13. The method according to claim 11, wherein the
invalid data is added when the original image is read
in a main scanning width of the page size defined by
10 the recommendation with a white plate placed behind the
original image in reading the original image.

14. The method according to claim 11, wherein said
compression step performs JPEG compression, and
15 in said control step, the valid image area is set
by using a comment marker of a JPEG header.

15. An image communication method for an image
communication apparatus for communicating a color image
20 with a distant apparatus according to the ITU-T
recommendations upon establishing line connection,
comprising:

an identification step of identifying a size of
an original image;
25 a compression step of compressing the image data;
and

a control step of, when the size of the original image, identified in said identification step, is smaller than a page size defined by the recommendation, reading the original image in the size of the original image, generating image data and performing control to designate a page size of the original image in a case where the image data is compressed in said compression step and transmitted.

10 16. An image communication method for an image communication apparatus for communicating a color image with a distant apparatus according to the ITU-T recommendations upon establishing line connection, comprising:

15 a size identification step of identifying a valid image data size from a valid image area of compressed data on the basis of a comment marker in a received JPEG-compressed file; and

a selection step of selecting a printing medium of a size suitable for printing on the basis of the valid image data size identified in said size identification step.

17. An image communication method for an image communication apparatus for communicating a color image with a distant apparatus according to the ITU-T

recommendations upon establishing line connection,
comprising:

5 a notification step of notifying the transmitting
side of information declaring that image data of a main
scanning size not more than a main scanning size
defined by the recommendation can be received, in
response to an inquiry about a capability of receiving
image data of an indefinite size from the transmitting
side; and

10 an extraction step of extracting a valid area of
image data transmitted from the transmitting side, in
response to a notification in said notification step.

18. An image communication method for an image
15 communication apparatus for communicating a color image
with a distant apparatus according to the ITU-T
recommendations upon establishing line connection,
comprising:

20 a printing step of printing a color image on the
basis of an image signal;

a determination step of determining a color
printing capability in said printing step; and

25 a transmission step of transmitting information
about the color printing capability determined in said
determination step to a transmitting side using a
control signal based on the recommendation.

19. A computer-readable storage medium storing a program for executing an image communication method of communicating a color image with a distant apparatus
5 according to the ITU-T recommendations upon establishing line connection, comprising:

an identification step module for identifying a size of an original image;

a compression step module for compressing the
10 image data; and

a control step module for, when the size of the original image, identified by said identification step module, is smaller than a page size defined by the recommendation, reading the original image upon adding
15 invalid data thereto to make the original image have a size equal to the page size defined by the recommendation, generating image data and performing control to set a valid image area of the image data compressed in accordance with the size of the original
20 image in a case where the image data is compressed in said compression step module and transmitted.

20. A computer-readable storage medium storing a program for executing an image communication method of
25 an image communication apparatus for communicating a color image with a distant apparatus according to the

ITU-T recommendations upon establishing line connection,
comprising:

an identification step module for identifying a
size of an original image;

5 a compression step module for compressing the
image data; and

a control step module for, when the size of the
original image, identified by said identification step
module, is smaller than a page size defined by the
10 recommendation, reading the original image in the size
of the original image, generating image data and
performing control to designate a page size of the
original image in a case where the image data is
compressed by said compression step module and
15 transmitted.

21. A computer-readable storage medium storing a
program for executing an image communication method of
an image communication apparatus for communicating a
20 color image with a distant apparatus according to the
ITU-T recommendations upon establishing line connection,
comprising:

a size identification step module for identifying
a valid image data size from a valid image area of
25 compressed data on the basis of a comment marker in a
received JPEG-compressed file; and

a selection step module for selecting a printing medium of a size suitable for printing on the basis of the valid image data size identified by said size identification step module.

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22. A computer-readable storage medium storing a program for executing an image communication method of an image communication apparatus for communicating a color image with a distant apparatus according to the ITU-T recommendations upon establishing line connection, comprising:

a notification step module for notifying the transmitting side of information declaring that image data of a main scanning size not more than a main scanning size defined by the recommendation can be received, in response to an inquiry about a capability of receiving image data of an indefinite size from the transmitting side; and

an extraction step module for extracting a valid area of image data transmitted from the transmitting side, in response to a notification by said notification step module.

23. A computer-readable storage medium storing a program for executing an image communication method of an image communication apparatus for communicating a

color image with a distant apparatus according to the ITU-T recommendations upon establishing line connection, comprising:

5 a printing step module for printing a color image on the basis of an image signal;

a determination step module for determining a color printing capability in said printing step module; and

10 a transmission step module for transmitting information about the color printing capability determined by said determination step module to a transmitting side using a control signal based on the recommendation.